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PATENT AND  
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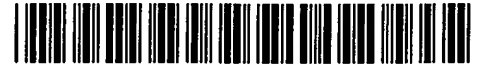
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DECEMBER 19, 2001

PTAS

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov

CHIRON CORPORATION  
ANNE S. DOLLARD  
PO BOX 8097  
MAIL STOP R-3  
EMERYVILLE, CA 94662



\*101877693A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/09/2001

REEL/FRAME: 012246/0552  
NUMBER OF PAGES: 14

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

POLO, JOHN

DOC DATE: 11/02/2000

ASSIGNOR:

GREER, CATHERINE

DOC DATE: 11/02/2000

ASSIGNOR:

CALDERON-CACIA, MARIA

DOC DATE: 06/28/2001

ASSIGNOR:

VEGA, DAN DEL LA, JR.

DOC DATE: 11/07/2000

ASSIGNOR:

DUBENSKY, THOMAS, JR.

DOC DATE: 09/04/2001

ASSIGNOR:

BELLI, BARBARA

DOC DATE: 09/30/2001

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12/27/01 om  
ASD  
PP 15900.001

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012246/0552 PAGE 2

ASSIGNEE:

CHIRON CORPORATION  
4560 HORTON STREET  
MAIL STOP R-3  
EMERYVILLE, CALIFORNIA 94608

SERIAL NUMBER: 60208376  
PATENT NUMBER:

FILING DATE: 05/31/2000  
ISSUE DATE:

MARY BENTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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Form PTO-1595  
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings



10-18-2001



101877693

PATENT & TRADEMARK OFFICE

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

John Polo, Catherine Greer,  
Maria Calderon-Cacia, Dan del la Vega,  
Jr., Thomas Dubensky, Jr., and  
Barbara Belli

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 11/02/00, 11/07/00, 09/04/01,  
06/28/01, and 09/30/01

2. Name and address of receiving party(ies)

Name: Chiron Corporation

Internal Address: Mail Stop R-3

Street Address: 4560 Horton Street

City: Emeryville State: CA Zip: 94608

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

60/208,376

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Chiron Corporation

Internal Address: Mail Stop R-3

Street Address: PO Box 8097

City: Emeryville State: CA Zip: 94662

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☒ Authorized to be charged to deposit account  
any deficiencies

8. Deposit account number: 03-1664

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Anne S. Dollard, Reg. No. 43,925

Name of Person Signing

Signature

October 4, 2001

Date

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231,

on this 10 day of October, 2001.  
By [Signature]

Total number of pages including cover sheet, attachments, and documents: 14

Mail documents to be recorded with required cover sheet information to:

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**ASSIGNMENT**

*WHEREAS*, We, John Polo, Catherine Greer, Maria Calderon-Cacia, Dan Del La Vega, Jr., Thomas Dubensky, Jr., and Barbara Belli, hereinafter referred to as *ASSIGNORS*, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:     METHOD FOR THE PURIFICATION OF ALPHAVIRUS REPLICON PARTICLES

Date(s) of Execution: 11/07/00

Filing Date: May 31, 2000

Serial No:             60/208,376

*WHEREAS*, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

*NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN*: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to *ASSIGNORS* by *ASSIGNEE*, receipt of which is hereby acknowledged, *ASSIGNORS* have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said *ASSIGNEE*, and *ASSIGNEE'S* successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said *ASSIGNEE* as fully and exclusively as it would have been held and enjoyed by said *ASSIGNORS* had this assignment and transfer not been made, to the full end and term of any Letters Patent.

**ASSIGNORS** also agree that the U.S. application number may be entered above by **ASSIGNEE** or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

**ASSIGNORS** further agree that they will, without charge to said **ASSIGNEE**, but at **ASSIGNEE'S** expense, cooperate with **ASSIGNEE** in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as **ASSIGNEE** lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said **ASSIGNEE**, or **ASSIGNEE'S** successors and assigns.

*IN TESTIMONY WHEREOF, ASSIGNORS* have hereunto signed their names to this assignment on the dates indicated below.

DATE \_\_\_\_\_

\_\_\_\_\_  
John Polo

DATE \_\_\_\_\_

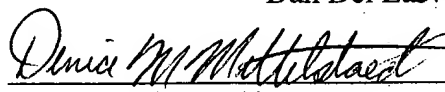
\_\_\_\_\_  
Catherine Greer

DATE \_\_\_\_\_

\_\_\_\_\_  
Maria Calderon-Cacia

DATE 110700

  
\_\_\_\_\_  
Dan Del La Vega, Jr.

 1117100 (Denise Mittelstaedt)  
\_\_\_\_\_  
Witness Signature

DATE \_\_\_\_\_

\_\_\_\_\_  
Thomas Dubensky, Jr.

\_\_\_\_\_  
Witness Signature

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PATENT  
Atty. Docket No. 15900.001

DATE \_\_\_\_\_

\_\_\_\_\_  
Barbara Belli

\_\_\_\_\_  
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PATENT  
Atty. Docket No. 15900.001

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Title of Invention:    METHOD FOR THE PURIFICATION OF ALPHAVIRUS REPLICON PARTICLES

Date(s) of Execution: 11/02/00 and 09/04/01    Filing Date: May 31, 2000

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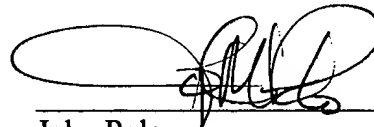
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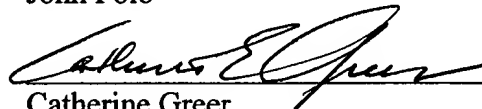
IN TESTIMONY WHEREOF, **ASSIGNORS** have hereunto signed their names to this assignment on the dates indicated below.

DATE 7/12/00



John Polo

DATE 11/2/00



Catherine Greer

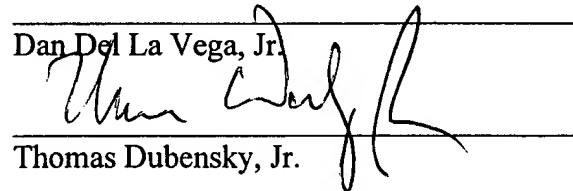
DATE \_\_\_\_\_

Maria Calderon-Cacia

DATE \_\_\_\_\_

Dan Del La Vega, Jr.

DATE 9-04-01



Thomas Dubensky, Jr.

DATE \_\_\_\_\_

Barbara Belli

\_\_\_\_\_  
Witness Signature



# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

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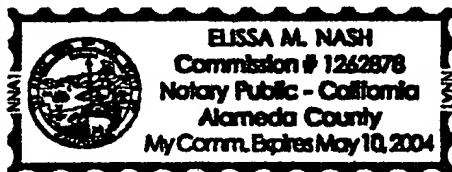
State of California

County of Alameda

On November 2, 2000 before me, Elissa M. Nash  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared John Polo and Catherine Greer  
Name(s) of Signer(s)

☒ personally known to me – OR – ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Elissa M. Nash  
Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: Assignment for Case No. 15900.001

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: Maria Calderon-Cacia, Dan Del La Vega, Jr.,  
Thomas Dubensky, Jr., and Barbara Belli

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

- ☐ Individual
- ☐ Corporate Officer
- Title(s): \_\_\_\_\_
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney-in-Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

Signer Is Representing:

Signer's Name: \_\_\_\_\_

- ☐ Individual
- ☐ Corporate Officer
- Title(s): \_\_\_\_\_
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney-in-Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_

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OF SIGNER  
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Signer Is Representing:

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## CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Contra Costa

SS.

On Sept. 4, 2001, before me, Elissa M. Nash

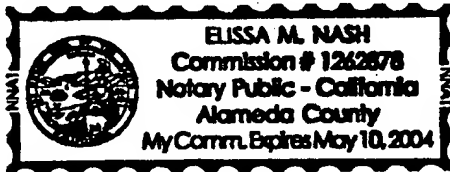
Date

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Thomas Dubensky, Jr.

Name(s) of Signer(s)

- ☒ personally known to me  
☐ proved to me on the basis of satisfactory evidence



to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Elissa M. Nash  
Signature of Notary Public

Place Notary Seal Above

### OPTIONAL

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Title or Type of Document: \_\_\_\_\_

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Signer(s) Other Than Named Above: \_\_\_\_\_

#### Capacity(ies) Claimed by Signer

Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

**ASSIGNMENT**

*WHEREAS*, We, John Polo, Catherine Greer, Maria Calderon-Cacia, Dan Del La Vega, Jr., Thomas Dubensky, Jr., and Barbara Belli, hereinafter referred to as **ASSIGNORS**, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:     METHOD FOR THE PURIFICATION OF ALPHAVIRUS REPLICON PARTICLES

Date(s) of Execution:   06/28/01

Filing Date: May 31, 2000

Serial No:               60/208,376

*WHEREAS*, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

*NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:* Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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*IN TESTIMONY WHEREOF*, **ASSIGNORS** have hereunto signed their names to this assignment on the dates indicated below.

DATE \_\_\_\_\_

\_\_\_\_\_  
John Polo

DATE \_\_\_\_\_

\_\_\_\_\_  
Catherine Greer

DATE 6/28/01

Maria Calderon-Cacia  
Maria Calderon-Cacia

DATE \_\_\_\_\_

\_\_\_\_\_  
Dan Del La Vega, Jr.

DATE \_\_\_\_\_

\_\_\_\_\_  
Thomas Dubensky, Jr.

DATE \_\_\_\_\_

Barbara Belli  
Barbara Belli

David Harrison  
Witness Signature

## CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Alameda

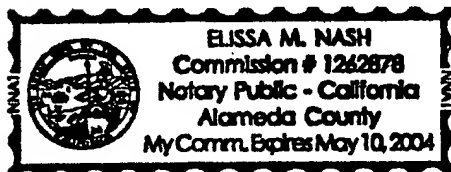
} ss.

On June 28, 2001, before me, Elissa M. Nash,  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Maria Calderon-Cacia,  
Name(s) of Signer(s)

- ☐ personally known to me  
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

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Place Notary Seal Above

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☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

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\_\_\_\_\_  
Catherine Greer

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\_\_\_\_\_  
Maria Calderon-Cacia

DATE \_\_\_\_\_

\_\_\_\_\_  
Dan Del La Vega, Jr.

\_\_\_\_\_  
Witness Signature

DATE \_\_\_\_\_

\_\_\_\_\_  
Thomas W. Dubensky, Jr.

\_\_\_\_\_  
Witness Signature

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Atty. Docket No. 15900.001

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Barbara Bell  
Barbara Belli

Paul Hamman  
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